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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **PEPTIDES AND PEPTIDOMIMETICS BINDING TO CD23**

(57) Abstract: The present invention describes compounds comprising new and useful peptides and peptidomimetics that can bind to CD23. They are capable of reducing inflammatory responses associated with auto-immune diseases, chronic inflammatory diseases, allergies and other inflammatory conditions such as those mediated by the mammalian immune system. Compounds of the present invention relate to a CD23-binding peptide wherein said peptide comprises an amino-acid sequence of X₁-X₂-X₃-X₄-X₅-X₆-X₇-X₈, wherein: X₁ is Phe, or is absent; X₂ is His or Ala; X₃ is Glu, Ser, Ala, Asn, Lys, or Cys; X₄ is Asn, Phe, Gln, Pro, Ser, or Ala; X₅ is Trp; X₆ is Pro, Arg, Glu, Gly, Cys, or Lys; X₇ is Ser, Pro, Leu, Thr, Ala, Gly, Asn, or absent; and X₈ is Phe, Gly, or is absent.

WO 2005/098435 A3

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER G01N33/532 C07K7/06 A61K38/08 C07K14/705		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) G01N C07K A61K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, BIOSIS		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	JOVAULT T ET AL: "PEPTIDES THAT MIMIC CANDIDA ALBICANS-DERIVED BETA-1,2-LINKED MANNOSIDES" GLYCOBIOLOGY, IRL PRESS,, GB, vol. 11, no. 8, August 2001 (2001-08), pages 693-701, XP009026488 ISSN: 0959-6658 the whole document	1-5, 10-14,21
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* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "A" document member of the same patent family		
Date of the actual completion of the international search 11 August 2005		Date of mailing of the international search report 23 12. 2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3018		Authorized officer Vogt, T

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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center;">11 August 2005</div>		Date of mailing of the international search report <div style="text-align: center;">23 12. 2005</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center;">Vogt, T</div>

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International Application No

PCT/IB2005/001133

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2005/001133

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 18-20
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 18-20 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-3, 7-34, 51, 53-57 (all partly)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1-3, 7-34, 51, 53-57 (all partly)

Subject matter directed to compounds/ polypeptides/ peptidomimetics comprising the polypeptide with SEQ ID NO: 1.

Invention 2: claims 1-3, 7-34, 51, 53-57 (all partly).

Subject matter directed to compounds/ polypeptides/ peptidomimetics comprising the polypeptide with SEQ ID NO: 1.

Invention 3-10: claims 1-34, 51, 53-57 (all partly)

Subject matter directed to compounds/ polypeptides/ peptidomimetics comprising the polypeptide with SEQ ID NO's: 3-10.

Invention 11: claims 1, 2, 4, 7-34, 51, 53-57 (all partly)

Subject matter directed to compounds/ polypeptides/ peptidomimetics comprising the polypeptide of claim 1, which is not covered by any of the inventions 1-10.

Inventions 12-21: claims 35-50, and 51 (partly)

Subject matter related to peptidomimetics of polypeptides with SEQ ID NOs: 1-10.

Invention 22: Claims 51, 53-57 (partly) and 52

Subject matter directed to the dipeptide Ac- w-n-CO₂H

Inventions 23-33: Claims 51, 53-57 (all partly)

Subject matter directed to compounds listed in Tables 1 and 2 not falling within the scope of any of inventions 1-22. Such as compounds: 222, 300, 329, 330, 359, 410, 411, 436, 489, 490 and 492.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/001133

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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